

Yellow Belt Test Questions:

	Sigma refers to a roman letter that mathematicians use when discussing "average" or lean"
	[] True [] False
2.	A process operating at 6 Sigma will only generate 3.4 defects per million opportunities?
	[] True [] False
	In order to achieve Six Sigma, practitioners follow a standard & rigorous methodology known
4.	Six Sigma originated in the 1980's at Motorola?
	[] True [] False
5.	To achieve Six Sigma the DMAIC methodology follows which approach
	[] Brainstorm possible factors then randomly analyze them to find the significant ones
	[] Use SME knowledge & experience to quickly find solutions
	[] Use the transfer function Y=f(x)
6.	A Six Sigma process will only produce this many defects per million opportunities
7.	Achieving Six Sigma has nothing to do with meeting customer expectations?
	[] True [] False
8.	Who is credited as being the father of Six Sigma?
	[] Bob Galvin [] Mikel Harry



	[]	Jack Welch		[]	Bill Smith
9. I	Hard cos	sts and soft costs	are t	wo type	s of COPQ
	[]	True	[]	False	
10.	COPQ	is an acronym tha	at sta	nds for	what?
11.	Which	of the following is	the o	ne that	is not part of the 7 deadly Muda?
	[]	Defects		[]	Over Production
	[]	Inventory		[]	Waiting
	[]	Movement		[]	Conveyance
	[]	Over Processing	3	[]	Measuring
12.	The Pa	reto Principle is r	named	d after a	n Italian economist Vilfredo Pareto
	[]	True	[]	False	
13.	CTQ's	are translated fro	m VO	C	
	[]	True	[]	False	
14.	CTQ is	an acronym that	stand	ds for w	hat?
15.	DPU is	calculated by div	riding	the nur	nber of defects by the number of units
	[]	True	[]	False	
16.	In Six S	Sigma Primary an	d Sec	condary	Metrics are Mandatory
	[]	True	[]	False	
17.	RTY is	an acronym that	stand	ls for wl	nat?



18.	DPU is an acronym that stands for wl	hat?				
19.	9. DMPO is an acronym that stands for	what?				
20.	D. Which of these is not one of the 4 sta	ges of team development?				
	[] Performing []	Storming				
	[] Norming []	Forming				
	[] Adorning					
21.	1. Which is not a characteristic of a succ	cessful team?				
	[] Common goals and working to	[] Common goals and working together to achieve that goal				
	[] Team member diversity (skills,	[] Team member diversity (skills, knowledge, experience etc.)				
	[] Appropriate resources are ava	[] Appropriate resources are available				
	[] Mutual respect	[] Mutual respect				
	[] A good leader exists among th	ne team				
	[] Complacency exists					
bea	· · · · · · · · · · · · · · · · · · ·	al measure, it's the reason for your project, it's your portant thing to understand in order for you to be				
23.	3. A well written problem statement con	tains all of the following except				
	[] Baseline	[] Goal				
	[] Gap	[]COPQ				
	[] Timeline Reference	[] Project Plan				



24.	From the following, select thos	se that are characteristics of a Lean Enterprise
	[] Pull Systems	[] Flow
	[] Zero Waste	[] Availability
	[] Flexibility	[] Value Add
25.	Put these 5S's into the proper	order of execution
	[] Set in Order	[] Sort
	[] Shine	[] Sustain
	[] Standardize	
26.	Lean and Six Sigma are Both	focused on Quality & Value for the customer?
	[] True []	False
27.	What is the Japanese word fo	waste?
	What type of muda is waste from necessary or using resources	om working more than required, scheduling more capacity that are overkill?
	[] Inventory	[] Over-Production
	[] Motion	[] Waiting
	[] Transportation	[] Over-Processing
29.	are flaws, errors	or other non-conformities that compromise the value of a
pro	duct	
30.	Lean is only about removing v	aste from the enterprise?



Γ	1	True	Γ	1	False
L	J	1140	L	J	i aloo

31. The 5 Principals of Lean are paraphrased below, select the correct 5

[] Customer Defines Value [] Identify the Value Stream

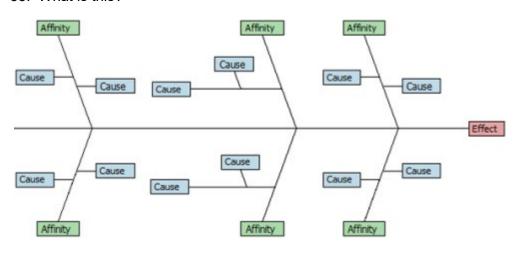
[] Continuous Flow [] Pull Where Possible

[] Manage Toward Perfection [] Batch Processing

[] Work Faster

32. _____ is when more products are produced than are required by the next function or customer.

33. What is this?



[] FMEA [] C&E Diagram

[] Process Map [] XY Diagram

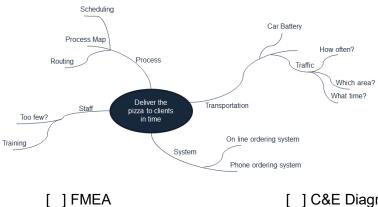
- 34. Arrange these C&E process steps into the correct order of execution.
 - [] Affinitize or group the causes
 - [] Brainstorm all potentials causes



[] Evaluate		man and actioning actions and
[] Identify & defir	ne the effect	
35. SIPOC is an acronym	າ using which v	vords?
[] Suppliers	[]	Immediate
[] Inputs	[]	Process
[] Outputs	[]	Customers
[] Primary	[]	Secondary
36. A SIPOC is another r	name for a flow	chart
[] True	[] False	
37. An FMEA ranks poter detection?	ntial failures us	sing values assigned to severity, occurrence and
[] True	[]False	
38. Which of these tools ranking for the various typ		if you want to develop a Risk Priority Number and that could occurr?
[] Cause & Effec	t Diagram	[] SIPOC
[] Functional Pro	cess Map	[] Thought Process Map
[] XY Diagram		[] FMEA
39should b process steps and proces		rying to understand the links between customers,
40 should b	oe used when l	brainstorming possible causes to an effect.



41. What is this?



- [] C&E Diagram
- [] Process Map []SIPOC
- [] Thought Process Map [] Spaghetti Map
- 42. Continuous variables are measured, Discrete variables are counted
 - [] True [] False
- 43. Nominal Data are discrete and rank ordered.
 - [] True [] False
- 44. Median is the average of a set of data
 - [] True [] False
- 45. Median is the middle value in a set of data
 - [] True [] False
- 46. Mode is the value in a data set that occurs most frequently



	[] True	[]False	
	Standard Deviatio mean	n is a measure tl	nat describes how far the data points spread away from
	[] True	[] False	
	For the normal dis riation	tribution, about _	% of the data fall within +/- 1 standard
	For the normal dis		% of the data fall within +/- 2 standard
50.	A is a	a graphical tool to	o present the distribution of the data
51.	The null hypothes	s for a normality	test is that the data are normally distributed?
	[] True	[] False	
52.	Select only those	that are example	s of graphical analysis tools
	[] Box Plots]] Histograms
	[] Scatter Plo	ts [] Run Charts
	[] ANOVA tab	le [] Regression Equation
	•	-	a step in a Six Sigma project that ensures the data are any data-based decisions.
	[] True	[] False	
54.	Repeatability eval	uates whether th	e same appraiser can obtain the same value multiple

environment.

times when measuring the same object using the same equipment under the same



	[]True	[] False		
55 \A	hich are common sour	rees of variation in	n most measurement system	ne?
oo. vv			•	15 !
	[] Part to part variat	_] Measurement instrument	
	[] Repeatability	[] Reproducibility	
	[] Humidity]] Altitude	
56. In greate	•	ems Analysis, whi	ch source of variation do we	hope to see be the
	[] Part to part variat	ion	[] Measurement instr	rument
	[] Measurer (persor	n measuring)	[] Altitude	
	[] Humidity			
meası 58	irement.	whether different a	e observed value and the tru	
	a Variable Gage R&R tability and Reproduci	· •	% contribution of variation at ss than %	tributable to
60. If	Kappa is greater than	0.7 the measurer	nent system is acceptable	
	[]True	[] False		
	p considers the within- on from the sample da	_	rd deviation and Pp consider	s the total standard
	[] True	[] False		



		•	uarantee a process to be capable. However, being stable is a lether a process is capable.
	[] True	[] False
	-	•	ess's potential capability to meet the two-sided specifications. It erage into consideration.
	[] True	[] False
	-	and Pp take both th ng the process capa	e variation and the average of the process into consideration when bility.
	[] True	[] False
65.	A C	p of greater than 1 s	suggests
	[] Total process vai	riation is greater than the width between the USL and LSL
	[] Total process vai	riation is less than the width between the USL and LSL
66.	ΑP	p of less than 1 sugg	gests
	[] Total process vai	riation is greater than the width between the USL and LSL
	[] Total process vai	riation is less than the width between the USL and LSL
67.	Whi	ch of the following n	neasurements is NOT a process capability index?
	[] Cp	[] Cpk
	[] Карра	[] Percent Defectives
	5S i	•	d to organize, order, clean, and standardize a workplace…and keep
	ſ] True	[] False



69. Ka	anban system is a den	nand driven system
	[]True	[] False
		ve type of Poka Yoke is when your car makes an audible "ding" or has not buckled their seat belt?
	[] True	[] False
	n example of a preven t the door closed?	tive type of Poka Yoke is when your dishwasher will not start
	[] True	[] False
72. Th	ne term "poka-yoke" ir	Japanese means "signboard"
	[] True	[] False
-	·	s a "pull" production scheduling system to determine when to not how much to produce based on the demand
74. Th	nis word in Japanese r	means "signboard"
75. WI	hich if these is not a b	enefit of a Kanban system
	[] Minimizes in-prod	cess inventory
	[] Prevents overpro	duction
	[] Improves respon	siveness to dynamic demand
	[] Increases depend	dency on accurate demand forecasts
	[] Streamlines the p	production flow
	[] Visualizes the wo	ork flow



76. F	From the following, se	elect those that are	characteristics of a Lean Enterprise
	[] Pull Systems		[] Flow
	[] Zero Waste		[] Value Add
	[] High Levels of	Inventory	[] Several Quality Control Teams
	Return on investment Itment to its financial		inancial benefits (either gain or loss) on a project o
	[]True	[] False	
78. N	Net present value is t	he total present va	lue of cash flows calculated using a discount rate?
	[]True	[] False	
79. __ time	ensure t	that the changes in	troduced by a Six Sigma project are sustained ove
	are doc red to complete an o		on process steps, activities and specific tasks
81. \	Which of these might	not be considered	a standard element of a control plan?
	[] SOP (Standar	d Operating Proced	lures) [] Communication Plan
	[] Training Plan		[] Audit Plan
	[] Floor plan		
	Control plans typically ess performance?	y include measurer	nent systems that monitor and help manage key
	[]True	[] False	



83. Communication Plans are dissemination of information?	documents that focus on planning and preparing for the
[] True [] False
84 A response plan should be	a component of as few control plan elements as possible
[] True [] False
85. Which of the following migl	nt be used to ensure actions, processes, procedures and othered?
[] Audit	[] Training
[] SOP's	[] Communication
[] Measurements	[] Poka-Yoke