

Yellow Belt Test Questions & Answers:

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



9. Hard costs and soft costs are two types of COPQ					
	[X]	True	[]	False	
10.	COPQ	is an acronym th	at sta	nds for	what? Cost of Poor Quality
11.	Which	of the following is	the c	ne that	t is not part of the 7 deadly Muda?
	[]	Defects		[]	Over Production
	[]	Inventory		[]	Waiting
	[]	Movement		[]	Conveyance
	[]	Over Processing	9	[X]	Measuring
12.		areto Principle is r True		d after a	an Italian economist Vilfredo Pareto
13.	CTQ's	are translated fro	m VO	C	
	[X]	True	[]	False	
14.	CTQ is	an acronym that	stand	ds for w	hat? Critical to Quality
15.	DPU is	calculated by div	/iding	the nui	mber of defects by the number of units
	[X]	True	[]	False	
16.	In Six S	Sigma Primary an	ıd Sed	condary	Metrics are Mandatory
	[X]	True	[]	False	
17.	RTY is	an acronym that	stand	ls for w	hat? Rolled Throughput Yield



18.	DPU is an acronym that stands for what? Defects per Unit
19.	DMPO is an acronym that stands for what? Defects per Million Opportunities
20.	Which of these is not one of the 4 stages of team development?
	[] Performing [] Storming
	[] Norming [] Forming
	[X] Adorning
21.	Which is not a characteristic of a successful team?
	[] Common goals and working together to achieve that goal
	[] Team member diversity (skills, knowledge, experience etc.)
	[] Appropriate resources are available
	[] Mutual respect
	[] A good leader exists among the team
	[X] Complacency exists
bea	The Primary metric is your critical measure, it's the reason for your project, it's your con. This metric is the single most important thing to understand in order for you to be essful.
23.	A well written problem statement contains all of the following except
	[] Baseline [] Goal
	[] Gap [] COPQ
	[] Timeline Reference [X] Project Plan



24.	From the following, sele	ect those that a	re cha	aracteristics of a Lean Enterprise)
	[X] Pull Systems		[X] F	Flow	
	[X] Zero Waste		[X] A	Availability	
	[X] Flexibility		[X] \	Value Add	
25.	Put these 5S's into the	proper order of	execu	ution	
	[2] Set in Order		[1]	Sort	
	[3] Shine		[5]	Sustain	
	[4] Standardize				
26.	Lean and Six Sigma ar	e Both focused	on Qı	uality & Value for the customer?	
	[X] True	[] False			
27.	What is the Japanese v	word for waste?	Muda	a	
	What type of muda is wn necessary or using res		-	ore than required, scheduling mkill?	ore capacity
	[] Inventory		[]	Over-Production	
	[] Motion		[]	Waiting	
	[] Transportation		[X]	Over-Processing	
29.	Defects are flaws, erro	rs or other non-	-confo	ormities that compromise the val	ue of a produc
30.	Lean is only about rem	oving waste fro	m the	enterprise?	
	[] True	[X] False			

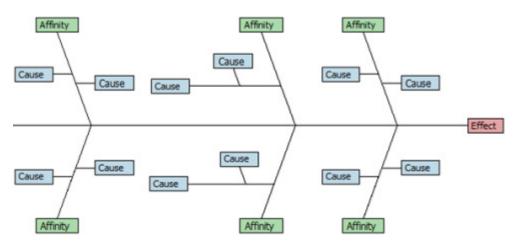


- 31. The 5 Principals of Lean are paraphrased below, select the correct 5
 - [X] Customer Defines Value
- [X] Identify the Value Stream

[X] Continuous Flow

- [X] Pull Where Possible
- [X] Manage Toward Perfection
- [] Batch Processing

- [] Work Faster
- 32. **Over Production** is when more products are produced than are required by the next function or customer.
- 33. What is this?



[] FMEA

[X] C&E Diagram

[] Process Map

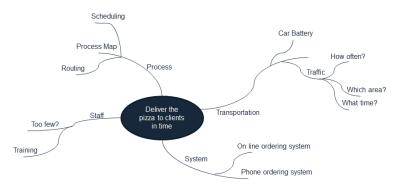
- [] XY Diagram
- 34. Arrange these C&E process steps into the correct order of execution.
 - [3] Affinitize or group the causes
 - [2] Brainstorm all potentials causes
 - [4] Evaluate
 - [1] Identify & define the effect



35.	SIPOC is an acronyi	n using which wo	ords?
	[X] Suppliers	[]	mmediate
	[X] Inputs	[X] F	Process
	[X] Outputs	[X] (Customers
	[] Primary	[]	Secondary
36.	A SIPOC is another	name for a flow o	chart
	[] True	[X] False	
	An FMEA ranks pote ection?	ential failures usir	ng values assigned to severity, occurrence and
	[X] True	[]False	
	Which of these tools king for the various ty	• •	you want to develop a Risk Priority Number and at could occur?
	[] Cause & Effe	ct Diagram	[] SIPOC
	[] Functional Pr	ocess Map	[] Thought Process Map
	[] XY Diagram		[X] FMEA
	SIPOC should be us ps and process outpu		o understand the links between customers, process
40.	Cause & Effect Dia	gram should be	used when brainstorming possible causes to an effect.



41. What is this?



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



	Standard Deviation mean	is a measure that describes how far the data points spread away from
	[X] True	[] False
48.	For the normal dist	ibution, about 68% of the data fall within +/- 1 standard deviation
	For the normal dist mean?	ibution, about 95% of the data fall within +/- 2 standard deviation from
50.	A Histogram is a g	raphical tool to present the distribution of the data
51.	The null hypothesis	for a normality test is that the data are normally distributed?
	[X] True	[] False
52.	Select only those the	at are examples of graphical analysis tools
	[X] Box Plots	[X] Histograms
	[X] Scatter Plots	[X] Run Charts
	[] ANOVA tabl	e [] Regression Equation
	•	ems Analysis is a step in a Six Sigma project that ensures the data are before making any data-based decisions.
	[X] True	[] False
time	•	ates whether the same appraiser can obtain the same value multiple he same object using the same equipment under the same
	[X] True	[] False



55.	Which are common sou	rces of variation in	n most m	neasurement systems?	
	[X] Part to part variat	ion [X	【] Measu	urement instrument	
	[X] Repeatability	[X	[] Repro	ducibility	
	[] Humidity]] Altitud	de	
	In a Measurement Systeatest?	ems Analysis, whic	ch sourc	ce of variation do we hope to	see be the
	[X] Part to part variat	ion]] Measurement instrument	
	[] Measurer (persor	n measuring)	[] Altitude	
	[] Humidity				
58.		tes whether differe		e and the true value of a mea	
	In a Variable Gage R&R eatability and Reproduc	•		oution of variation attributable 10%	to
	If Kappa is greater than [X] True				
	Cp considers the within- iation from the sample da	-	d deviat	tion and Pp considers the tota	al standard
	[X] True	[] False			



	•	not guarantee a process to be capable. However, being stable is a ine whether a process is capable.
	[X] True	[] False
	•	e process's potential capability to meet the two-sided specifications. It as average into consideration.
	[] True	[X] False
	Cp, and Pp take tasuring the proces	both the variation and the average of the process into consideration when s capability.
	[] True	[X] False
65.	A Pp of greater th	an 1 suggests
	[] Total proce	ess variation is greater than the width between the USL and LSL
	[X] Total proce	ss variation is less than the width between the USL and LSL
66.	A Pp of less than	1 suggests
	[X] Total proce	ss variation is greater than the width between the USL and LSL
	[] Total proce	ess variation is less than the width between the USL and LSL
67.	Which of the follo	wing measurements is NOT a process capability index?
	[] Cp	[] Cpk
	[<mark>X</mark>] Kappa	[] Percent Defectives
	5S is systematic r at way?	method to organize, order, clean, and standardize a workplaceand keep
	[X] True	[] False



69.	9. Kanban system is a demand driven system		
	[X] True	[] False	
		detective type of Poka senger has not buckled	Yoke is when your car makes an audible "ding" or their seat belt?
	[X] True	[] False	
	An example of a property and the door close	* ·	a Yoke is when your dishwasher will not start
	[X] True	[] False	
72.	The term "poka-ye	oke" in Japanese mea	ns "signboard"
	[] True	[X] False	
	•	n is a "pull" production now much to produce b	scheduling system to determine when to produce, based on the demand
74.	This word in Japa	nese means "signboa	rd" Kanban
75.	Which if these is	not a benefit of a Kanb	an system
	[] Minimizes	in-process inventory	
	[] Prevents o	verproduction	
	[] Improves r	esponsiveness to dyna	amic demand
	[X] Increases	dependency on accura	te demand forecasts
	[] Streamline	s the production flow	
	[] Visualizes	the work flow	



76.	From the following,	select those that ar	e characteristics of a Lean Enterprise
	[X] Pull Systems	3	[X] Flow
	[X] Zero Waste		[X] Value Add
	[] High Levels	of Inventory	[] Several Quality Control Teams
	Return on investment to its financi		financial benefits (either gain or loss) on a project or
	[X] True	[] False	
78.	•	•	alue of cash flows calculated using a discount rate?
	[X] True	[] False	
	Control Plans ens	ure that the change	s introduced by a Six Sigma project are sustained
	•	g Procedures are on complete an oper	documents that focus on process steps, activities and ation.
81.	Which of these mig	ht not be considere	d a standard element of a control plan?
	[] SOP (Stand	ard Operating Proce	edures) [] Communication Plan
	[] Training Pla	n	[] Audit Plan
	[X] Floor plan		
	Control plans typicates performance?	ally include measure	ement systems that monitor and help manage key
	[X] True	[] False	



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