nit 12 - Wee					T
	k 11				y
Course outline	Assignment 11	(Jan 2018)			in
low to access the ortal	The due date for submitting this As per our records you have no	s assignment has passed. ot submitted this assignment.	I	Due on 2018-04-11	1, 23:59 IS <mark>T</mark> 8 ⁺
Veek 1	Total No. of Questions: 15. E	Each question carries one point.		and a set of the set	
Veek 2	 Question 1 to 8 are objective Question 9 to 13 are true/fall 	e type questions. Only one answer is o lse statement questions.	correct per nu	Imbered item.	
Veek 3	Question 14 and 15 are mul	tiple choice questions. More than one	answers are	correct per numbered ite	em
Jeek J	1) An approach that aims to iden	tify the product or service feature that	is critical to va	arious types of failure is	: 1 point
Veek 4	Failure mode and effects a	analysis			
Veek 5	Control Chart				
Veek 6	Fault tree analysis				
Veek 7	No, the answer is incorrect. Score: 0				
Veek 8	Accepted Answers: Failure mode and effects analysi	is			
Veek 9	2) Which one of the following sta	tement is correct? Choose the correct	option		1 point
Veek 10	Statement 1- The main purpose of performing	measure phase of DMAIC is to set bas	seline data to	understand how the pro	cess is currently
Veek 11	Statement 2- The main purpose of a	analyse phase of DMAIC is to identify,	validate and s	select root cause for elin	nination
Lecture 35: The Journey to Six Sigma	Only statement 1 is correc	t			
Lecture 36:A Case	Only statement 2 is correc	t			
Study of Defect Reduction	Both statements are correct Both statements are incorrect	ct			
Lecture 37: DFM and	No, the answer is incorrect.				
Feedback for week	Score: 0				
11	Both statements are correct				
Quiz : Assignment 11 (Jan 2018)	3) Match the followings				1 point
Week 11 Assignment	Techniques in Six Sigma	ı	Desci	ription	
Solution (Jan 2018)	a) Brainstorming	1) To identify potential fac	tors causin	ng an overall effec	t
Veek 12	b) Ishikawa diagram	2) Ability of a product to pe	erform as o	expected over time	; C 11
OOWNLOAD VIDEOS	c) Design for manufacturing	3) A method to generate ide	eas or to lo	ocate probable caus	ses of a problem
	d) Reliability	4) It is general engineering	g practice	of designing prod	ducts in such
		that they are easy to manufa	acture		

No, the answer is incorrect. Score: 0 Accepted Answers: a-3, b-1, c-4, d-2

4) The x and y axes of the bathtub curve are

1 point

- x axis= Time, y axis=Reliability
- x axis= Reliability, y axis=Time
- x axis= Time, y axis=Failure rate
- x axis= Failure rate, y axis=Time

No, the answ Score: 0	ver is incorrect.	
Accepted An x axis= Time,	nswers: y axis=Failure rate	f
5)	is the probability of performing a successful repair action within a given time	1 point
 Maintai Design 	for Manufacturing	
Reliabil	lity	
FMEA	ver ie incorrect	in
Score: 0		g+

Accepted Answers: Maintainability

6) The reliability block diagram of a system is shown in the following figure with component reliability noted in each **1 point** block.



0.726

0.855

0.804

0.670

No, the answer is incorrect. Score: 0 Accepted Answers:

0.726

7) If an MTBF of an electronics equipment is 2000 hrs., then the probability of survival for 400 hrs. of operation will be 1 point

0.8187
0.187
0.871

0.877

No, the answer is incorrect. Score: 0

Accepted Answers: 0.8187

8) ______is a systematic, streamlined, concurrent engineering program in which reliability engineering is weaved **1** point into the total development cycle.

- Design for reliability
- Design for manufacturing
- Design for assembly
- Design for quality

No, the answer is incorrect. Score: 0

Accepted Answers: Design for reliability

9) The main purpose of control phase of DMAIC is to process performance by addressing and eliminating the root **1** point causes

TrueFalse

	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: False	
	10)The reason of performing the Design for manufacturing process is to reduce the manufacturing cost at the design 1 <i>p</i>	oi
sta	age.	
	True	
	○ False	
	No, the answer is incorrect. Score: 0	1
	Accepted Answers:	
	True	
	11)During normal service period of an equipment, the failure density follows normal distribution. 1 p	ſ
	True	
	False	
	No, the answer is incorrect.	
	Score: 0	
	Accepted Answers: False	
a r	12)A Six Sigma Green Belt is a full-time quality professional who is mentored by a master black belt, but may report to 1 p nanager, for his or her tour of duty as a green belt.	oi
	False	
	No the answer is incorrect	
	Score: 0	
	Accepted Answers: False	
	13)Process element for six sigma includes disciplined approach, Analysis of variance, and Quantitative measures 1 p	oi
	True	
	© False	
	No, the answer is incorrect.	
	Accepted Answers:	
	True	
	14)Which of the following statements are correct? Mark the correct choice. 1 p	ooi
	To obtain the zero defect in the process fool proofing technique is commonly used	
	The concept of zero defect was given by Joseph J Juran.	
	Zero defects means higher customer satisfaction and improved customer loyalty, which invariably leads to better satisfaction	ale
	and profits.	
	Control charts help in zero detect production	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
	To obtain the zero defect in the process fool proofing technique is commonly used. Zero defects means higher customer satisfaction and improved customer lovelity, which inversely, loads to	
	zero derects means ingrier customer sausiaction and improved customer loyalty, which invariably leads to better sales and profits.	
	15)The key feature of Total quality management includes 1 p	oi
	Continuous improvement	
	Teamwork, trust and empowerment	
	Establishing clear specifications	
	All of the above	
	No, the answer is incorrect.	
	Score: 0	
	Accorted Anowers:	
	Accepted Answers.	

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