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NPTEL

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Courses » Six Sigma

Announcements

Course

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Unit 2 - Week 1

Course outline

How to access the portal

Week 1

- Lecture 1: Concepts in Quality Management - I
- Lecture 2: Concepts in Quality Management - II
- Lecture 3: Concepts in Quality Management - III
- Lecture 4: Initiating Six Sigma
- Feedback for Week 1
- Quiz : Week 1 - Assignment
- Week 1: Assignment Solution (Jan 2018)

Week 2

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Week 1 - Assignment

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2018-02-04, 23:59 IST

- Total No. of Questions: 15. Each question carries one point.
- Question 1 to 7 are objective type questions. Only one answer is correct per numbered item.
- Question 8 to 12 are true/false statement questions.
- Question 13 to 15 are multiple choice questions. More than one answers are correct per numbered item.

1) Match the followings

1 point

Evolution of Six-sigma	Year
a) Inspection	1)1985
b) DOE	2) 2000
c) Taguchi	3) 1975
d) Six sigma	4) 1930

- a-1, b-4, c-3, d-2
- a-1, b-3, c-4, d-2
- a-4, b-3, c-1, d-2
- a-4, b-1, c-2, d-3

No, the answer is incorrect.

Score: 0

Accepted Answers:

a-4, b-3, c-1, d-2

2) Taguchi recommended that loss in a process is increased with increase in_____.

1 point

- Specification
- Variability
- Competition
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Variability

3) Which of the following is not a criterion for the Malcomb Baldrige Award?

1 point

- Leadership
- Defect rate
- Strategy
- Business results

No, the answer is incorrect.

Score: 0

Accepted Answers:

Defect rate

4) The products manufactured during 1800s were unique. How quality was endures in this era?

1 point

- Through Six Sigma
- Through quality chart
- Through inspection
- Through calculation

No, the answer is incorrect.

Score: 0

Accepted Answers:

Through inspection

5) Match the followings

1 point

a. Design of Experiments	1. Quality loss function
b. Scatter diagram	2. Defining customer needs or requirements
c. Quality function deployment	3. Linking among two sets of data
d. Taguchi method	4. Cause and effect relationship

- a-4, b-2, c-3, d-1
- a-3, b-1, c-4, d-2
- a-1, b-3, c-4, d-2
- a-4, b-3, c-2, d-1

No, the answer is incorrect.

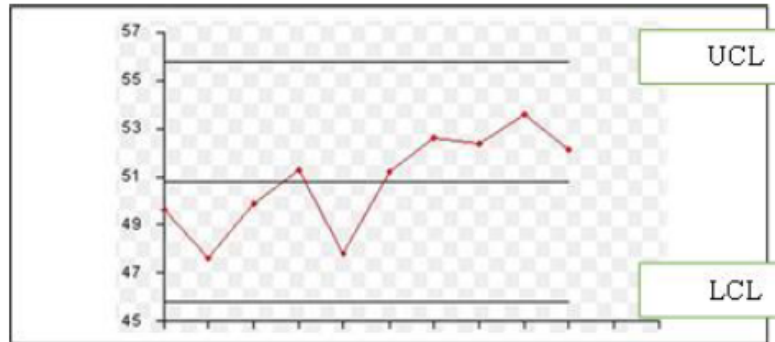
Score: 0

Accepted Answers:

a-4, b-3, c-2, d-1

6) The diagram given below is an example of

1 point



- Pareto chart
- Scatter diagram
- Run chart
- Control chart

No, the answer is incorrect.

Score: 0

Accepted Answers:

Control chart

7) Which of the following relationship is correct

1 point

- Prevention cost ↑, External failure costs ↓, Appraisal costs ↓, Internal failure costs ↓
- Prevention cost ↓, External failure costs ↓, Appraisal costs ↑, Internal failure costs ↑
- Prevention cost ↑, External failure costs ↓, Appraisal costs ↑, Internal failure costs ↑
- Prevention cost ↑, External failure costs ↑, Appraisal costs ↑, Internal failure costs ↓

No, the answer is incorrect.

Score: 0

Accepted Answers:

Prevention cost ↑, External failure costs ↓, Appraisal costs ↓, Internal failure costs ↓

8) Deming's philosophy is based on improving products and services by reducing uncertainty and variability in the design and manufacturing processes. 1 point

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

9) A Pareto diagram helps to understand the relationships between two variables and to verify possible cause and effect hypotheses.

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

10) An ISO 9000 is mainly used for environmental management.

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

11) Cost associated with effort to prevent the cost is called External failure cost

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

12) The purpose of Statistical process control (SPC) is to control and monitor the process.

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

13) Six Sigma is the multi-dimensional approach, which of the following statements are correct

1 point

- It is used to eliminate the cause of defect and errors
 It is process improvement process that helps to improve the final quality of the product
 Producing not more than 2.4 ppm defects
 All the above mention statements are correct

No, the answer is incorrect.

Score: 0

Accepted Answers:

It is used to eliminate the cause of defect and errors

It is process improvement process that helps to improve the final quality of the product

14) Which of the following statements are correctly referred to DOE

1 point

- It is considered as a step-by-step process for identifying all possible failure in a design
 To find cause and effect relationship
 It is used to study how a process changes over a time
 To determine the relationship between factors affecting a process and the output of that process

No, the answer is incorrect.

Score: 0

Accepted Answers:

To find cause and effect relationship

To determine the relationship between factors affecting a process and the output of that process

15) Flow charts

1 point



- Identifies the frequency of quality defect occurrence
- Used for documenting a process, managing workflow and Data management, etc.
- Used in analysing, designing, documenting or managing a process or program in various fields
- A statistical process control tool used to determine if a manufacturing or business process is in a state of control

No, the answer is incorrect.

Score: 0

Accepted Answers:

Used for documenting a process, managing workflow and Data management, etc.

Used in analysing, designing, documenting or managing a process or program in various fields



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