

Unit 11 - Week 10

Course outline

How does an NPTEL online course work?

Week 1

Week2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Six Sigma

Some Current Issues In Quality Management

Facility Layout-I (Introduction)

Facility Layout-II (Group Technology and other layouts)

Facility Layout-III (Layout design and Precedence diagram)

Quiz : Assignment 10

Solution for Assignment 10

Week 11

Week 12

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Assignment 10

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

Due on 2020-04-08, 23:59 IST.

1) Which of the following distribution is used to understand six sigma quality management? 1 point

- Exponential distribution
- Normal distribution
- Binomial distribution
- Poisson distribution

No, the answer is incorrect.
Score: 0

Accepted Answers:
Normal distribution

2) Which of the following is correct? 1 point

- Six sigma is all about reducing the number of defects in a process.
- Six sigma is about minimizing variability in a process.
- Six sigma can be implemented using DMAIC approach.
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

3) Which of the following is correct? 1 point

- Under a six sigma system, 3.4 defects per million are permissible.
- Under a six sigma system, 27 defects per million are permissible.
- Under a six sigma system, 34 defects per million are permissible.
- Under a six sigma system, 2700 defects per million are permissible.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Under a six sigma system, 3.4 defects per million are permissible.

4) The Taguchi method includes all except which of the following major concepts: 1 point

- Employee involvement
- Remove the effects of adverse conditions
- Quality loss function
- Target specifications

No, the answer is incorrect.
Score: 0

Accepted Answers:
Employee involvement

5) Which of the following is correct? 1 point

- Ishikawa diagram helps in identifying customer priorities.
- Quality Function deployment helps in identifying customer priorities.
- Benchmarking helps in identifying customer priorities.
- All of the above are correct.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Quality Function deployment helps in identifying customer priorities.

6) Which of the following is not considered a hybrid layout? 1 point

- Cellular layouts
- Flexible manufacturing systems
- Fixed position layouts
- Mixed model assemble lines

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fixed position layouts

7) Which of the following will influence a facility layout? 1 point

- The volume and variety of goods or services produced
- The degree of customer interaction
- The type of equipment needed to produce the product
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

8) Which of the following characteristics is associated with a process layout? 1 point

- Stable demand
- Less skilled workers
- Specialized machinery
- Low volume

No, the answer is incorrect.
Score: 0

Accepted Answers:
Low volume

9) Which of the following layout design is suitable for repetitive work? 1 point

- Fixed position layout
- Product layout
- Process layout
- Matrix layout

No, the answer is incorrect.
Score: 0

Accepted Answers:
Product layout

10) The concept of "part family" is relevant in Layout? 1 point

- Fixed position layout
- Process layout
- Product layout
- Cellular layout

No, the answer is incorrect.
Score: 0

Accepted Answers:
Cellular layout