

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week - 0

Week 1

● Lecture 1: History and Evolution of Quality Control and Management

● Lecture 2: History and Evolution of Quality Control and Management

● Lecture 3: History and Evolution of Quality Control and Management

● Lecture 4: History and Evolution of Quality Control and Management

● Lecture 5: History and Evolution of Quality Control and Management

● Week 1 : Lecture Material

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Week 2

Week 3

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Assignment 1

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

Due on 2020-02-12, 23:59 IST.

1) Quality of a product may be defined as its fitness for use. This definition is from the perspective of

2 points

- a. Engineering
- b. Service
- c. Customer
- d. Societal

No, the answer is incorrect.

Score: 0

Accepted Answers:

c. Customer

2) The quality of a product or a service is mainly assessed with respect to its

2 points

- a. Performance
- b. Aesthetics
- c. Stated quality
- d. Brand value

No, the answer is incorrect.

Score: 0

Accepted Answers:

a. Performance

3) The internal failure cost in a manufacturing system is:

2 points

- a. Rework
- b. Scrap
- c. A type of loss
- d. Both a and b

No, the answer is incorrect.

Score: 0

Accepted Answers:

c. A type of loss

4) The quality characteristic, tensile strength of a metallic component, is an example of

2 points

- a. Functional value
- b. Aesthetic value
- c. Cost value
- d. Exchange value

No, the answer is incorrect.

Score: 0

Accepted Answers:

a. Functional value

5) Quality, as a formal discipline, evolved during

2 points

- a. Late seventeenth century
- b. Early eighteenth century
- c. Early nineteenth century
- d. Early twentieth century

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. Early twentieth century

6) In any quality control exercise/assignment related to a product, the necessary condition is to be satisfied is:

2 points

- a. Variability of quality characteristic of the product under consideration needs to be reduced
- b. Variability of quality characteristic of the product under consideration needs to be under control
- c. Variability of the process under consideration should be as minimum as possible
- d. Specification range of the quality characteristic of the product under consideration is smaller

No, the answer is incorrect.

Score: 0

Accepted Answers:

b. Variability of quality characteristic of the product under consideration needs to be under control

7) Modern quality has evolved through the following stages

2 points

- a. Inspection and CWQM
- b. Inspection and Quality Assurance
- c. Inspection and Quality Control
- d. Inspection, Quality Control, Quality Assurance, and CWQM

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. Inspection, Quality Control, Quality Assurance, and CWQM

8) In Taguchi Method, the quality of a product, the quality is defined in terms of

2 points

- a. Deviation from the target
- b. Societal loss in units of scrap
- c. Societal loss in monetary terms
- d. All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

c. Societal loss in monetary terms

9) In 'Quality of Design' phase, we need to consider the relationship between design of the product and its performance with the consideration of

2 points

- a. Factor of safety
- b. Dynamic load correction factor
- c. Actual working conditions including expected product life
- d. All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. All of the above

10) The main objective of the Taguchi Method is to create a product or a process that is

2 points

- a. Manufacturable and maintainable
- b. Maintainable and serviceable
- c. Made with optimal parameter settings
- d. Perform well in all possible conditions

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. Perform well in all possible conditions

11) In a concurrent engineering approach, the design of a product is to be verified by a number of measures

2 points

- a. Performance and quality
- b. Cost and service
- c. Manufacturability and testability
- d. All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. All of the above

12) A product may have different design 'levels'. The design level is selected based on

2 points

- a. Value of the product
- b. Cost of the product
- c. Maximum value and minimum cost
- d. Difference between value and cost

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. Difference between value and cost