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NPTEL

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Courses » Six Sigma

Announcements

Course

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Unit 13 - Week 12

Due on 2018-04-18, 23:59 IST

Course outline

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Week 1

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Week 12

- Lecture 38: Failure Modes and Effects Analysis (FMEA)
- Lecture 39: Implementing Six Sigma
- Lecture 40: Getting Results from Six Sigma
- Feedback for week 12
- Quiz : Week 12 Assignment (Jan 2018)
- Week 12 Assignment Solution (2018)

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Week 12 Assignment (Jan 2018)

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

- 1) Risk due to failure is the function of
1. Severity of consequences of failure
 2. Likelihood of failure
- Select the correct option

- Only 1
- Only 2
- 1 and 2
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

1 and 2

1 point

- 2) Failure mode and effect analysis (FMEA) was first used by

- Aerospace industry
- Ford began
- General motors
- Toyota motor corporation

No, the answer is incorrect.

Score: 0

Accepted Answers:

Ford began

1 point

- 3) FMEA's are intended to

- Rate severity of failure modes
- Identify actions to reduce occurrences
- Test adequacy of controls
- All of the these

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the these

1 point

- 4) Risk priority number (RPN) is

- Inversely proportional to severity rating (S)
- Directly proportional to occurrence rating (O)
- Inversely proportional to detection capability (D)
- All of these are correct

No, the answer is incorrect.

Score: 0

Accepted Answers:

Directly proportional to occurrence rating (O)

1 point

- 5) Select the most appropriate option

- Design FMEA is more effective than Process FMEA
- Process FMEA is more effective than Design FMEA
- Both are equally effective
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Design FMEA is more effective than Process FMEA

1 point

6) Random variations are necessarily to be eliminated

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

7) Chronic problems need a

- Structured approach to find long term solutions
 Structured approach to find short term solutions
 Structured approach to find short as well as long term solutions
 None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Structured approach to find long term solutions

8) Which one of these is human resource focus of Six Sigma

1 point

1. Training the employees
 2. Evaluation of employee feedback
 3. Leadership role models
- Select the correct option

- Only 1
 1 and 2
 1, 2 and 3
 None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

1, 2 and 3

9) Which of these can be used as quality measure in Six Sigma

1 point

1. Amount of rework
 2. Cost of internal losses
- Select the correct option

- Only 1
 Only 2
 1 and 2
 None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

1 and 2

10) According to Deming, Quality problems are due to

1 point

1. Management
 2. Method
- Select the correct option

- Only 1
 Only 2
 Both 1 and 2
 None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Only 1

11) The tool, design of experiment (DOE), is used in control phase of DMAIC

1 point

- True
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

12) Brainstorming, is a tool used in control phase of DMAIC

1 point

- True
 False



No, the answer is incorrect.

Score: 0

Accepted Answers:

False

13) Match the following

- | | |
|--|---------------------------|
| A. TQM promotes | 1. Small change |
| B. Kaizen is | 2. Continuous improvement |
| C. Quality circle can solve problem related to | 3. Employee participation |
| D. Quality circle benefit to | 4. Employee |

- A-3, B-1, C-2, D-4
- A-1, B-3, C-2, D-4
- A-3, B-1, C-4, D-2
- A-3, B-2, C-1, D-4

No, the answer is incorrect.

Score: 0

Accepted Answers:

A-3, B-1, C-2, D-4

14) Six Sigma statistically allows

- No defect
- 6 defects per millions of parts
- 3.6 defects per millions of parts
- 3.4 defects per millions of parts

No, the answer is incorrect.

Score: 0

Accepted Answers:

3.4 defects per millions of parts

15) Control chart is used for cause and effect analysis

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

1 point



1 point

1 point

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