

Unit 10 - Week 9

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

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Week 6

Week 7

Week 8

Week 9

● Statistical Concepts in Quality Control-III (c-chart & Examples)

● Statistical Concepts in Quality Control-IV (Run Test & Examples)

○ 7 QC Tools

● Acceptance Sampling

● Process Capability

○ Quiz : Assignment 9

○ Solution for Assignment 9

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Assignment 9

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

Due on 2020-04-01, 23:59 IST.

1) Which of the following is not a basic QC tool? 1 point

- Pareto Analysis
- Run Chart
- Tracking signal
- Histogram

No, the answer is incorrect.
Score: 0

Accepted Answers:
Tracking signal

2) A Taxi company receives several complaints per day about the behaviour of its drivers. Over a 9-day period, the owner received the following number of calls from irate passengers: 3, 0, 8, 9, 6, 7, 4, 9, 8 for a total of 54 complaints. What is the central value of complaints for preparing a suitable chart? 1 point

- 6
- 9
- 54
- 8

No, the answer is incorrect.
Score: 0

Accepted Answers:
6

3) A Taxi company receives several complaints per day about the behaviour of its drivers. Over a 9-day period, the owner received the following number of calls from irate passengers: 3, 0, 8, 9, 6, 7, 4, 9, 8 for a total of 54 complaints. What should be lower control limit for c chart for 99.73% control limits? 1 point

- 2.45
- 13.35
- 0
- 6

No, the answer is incorrect.
Score: 0

Accepted Answers:
0

4) Cause and effect diagrams are also known as : 1 point

- Quality loss charts
- Fish bone diagrams
- PDCA diagram
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fish bone diagrams

5) Which of the following quality control chart is useful in classifying the causes of the defects? 1 point

- Run Charts
- Check Sheet
- Pareto Analysis
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Pareto Analysis

6) Which of the following is correct? 1 point

- The probability of rejecting a good lot is called type I error.
- The probability of accepting a bad lot is type I error.
- The probability of rejecting a good lot is called type II error.
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
The probability of rejecting a good lot is called type I error.

7) Which of the following is correct? 1 point

- Producer's risk is the probability that a bad lot is accepted.
- Producer's risk is the probability that a good lot will be rejected.
- Producer's risk is cost of increasing the poor quality.
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Producer's risk is the probability that a good lot will be rejected.

8) LTPD stands for 1 point

- Lot tolerance percent defective
- Lot Total per defect
- Lot Test percent defective
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Lot tolerance percent defective

9) Which of the following is correct? 1 point

- Process Capability Index = (upper specification - lower specification)/ σ
- Process Capability Index = (upper specification - lower specification)/ 3σ
- Process Capability Index = (upper specification - lower specification)/ 6σ
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Process Capability Index = (upper specification - lower specification)/ 6σ

10) What is the current expectations for process capability index value? 1 point

- 1.33
- 1.00
- 2.00
- More than 0.67

No, the answer is incorrect.
Score: 0

Accepted Answers:
1.33