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Courses » Total Quality Management - I

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Unit 3 - Week 2-Introduction to Total Quality Management - II

Course outline

How to access the portal & Assignment - 00

Week-1
Introduction to Total Quality Management

Week
2-Introduction to Total Quality Management - II

Introduction to Concepts of Probability

Six Sigma Overview

DMAIC for Problem Solving

DMAIC examples and DMADV

Quality Improvement

Quiz : Assignment - 02

Assignment - 02 (Solution)

WEEK 2 - FEEDBACK -

Assignment - 02

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-09-05, 23:59 IST.**

1) Which of the following statements is / are TRUE? 0 points

- I. Probability distribution functions are only for continuous events.
- II. For the discrete case, the probability distribution is termed as Probability Mass Function(PMF).
- III. For the continuous case, the probability distribution is termed as Probability Density Function(PDF).

- Both I and II
- Only II
- Only III
- All statements are True

No, the answer is incorrect.

Score: 0

Accepted Answers:

Both I and II

2) The probability distribution which shows the sum of probability up to that point is termed as **1 point**

- Probability Mass Function(PMF).
- Cumulative Distribution Function(CDF).
- Probability Density Function(PDF).
- Normal Distribution.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Cumulative Distribution Function(CDF).

3) ANALYZE phase - includes 1 point

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Week 5 - Control
Charts for
Variables

Week 6 - Control
Charts for
Attributes

Week 7 -
Process
Capability
Analysis and
ISO 9000 basics

Week 8 - Basic
of ISO 9000,
CUSUM and
EWMA charts

Slides and
Reading

DOWNLOAD
VIDEOS

No, the answer is incorrect.

Score: 0

Accepted Answers:

identify Vital Project X's and statistically validate them

4) After defining the problem, someone following the Six Sigma process should: **1 point**

- measure the problem
- analyze the results
- improve the process
- implement the plan

No, the answer is incorrect.

Score: 0

Accepted Answers:

measure the problem

5) Identify the INCORRECT option. **1 point**

- "Measure" involves collection of data relating to quality, cost, throughput time etc.
- "Analyze" uses data collected from previous step to understand cause-and-effect relationship and to identify sources of variability.
- "Define" imposes creative thinking to about the specific change that can be made in the process.
- "Control" completes all remaining project and to hand off the improved process to the owner along with a process control plan.

No, the answer is incorrect.

Score: 0

Accepted Answers:

"Define" imposes creative thinking to about the specific change that can be made in the process.

6) DMAIC is a structured problem-solving methodology that can be used for **1 point**

- I. Cycle time reduction
- II. Throughput improvement
- III. Reduce Variability

- Only I
- I, II and III
- I and II
- II and III

No, the answer is incorrect.

Score: 0

Accepted Answers:

I, II and III

7) DMADV differs from DMAIC because DMADV is used for customer focused services like **1 point**

product improvement, product adjustment or new product development where as DMAIC is focused on improving an existing process, rather than creating a new product or process like DMADV. The above statement is:

- True
- False
- Cannot be said deterministically
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

8) Six sigma implementations can be divided into three generations. Which of the following option is INCORRECT? **1 point**

- The first generation focused on defect elimination and variability reduction.
- Second generation mainly focused on integrating the above with improved business performance through cost reduction.
- Third generation is marked by focus on creating value throughout the organization and for its stakeholders.
- All options are FALSE.

No, the answer is incorrect.

Score: 0

Accepted Answers:

All options are FALSE.

9) Which of the following is NOT True for Design for Six Sigma (DFSS)? **1 point**

- DFSS is used for new product development.
- DMAIC yields products and services that provide great customer satisfaction and increased market share than DFSS.
- VoC (Voice of Customer) is used in DFSS for identification of new products.
- Unlike its traditional Six Sigma/DMAIC predecessors, which are usually focused on solving existing manufacturing issues, DFSS aims at avoiding manufacturing problems by taking a more proactive approach to problem solving and engaging the company efforts at an early stage to reduce problems that could occur.

No, the answer is incorrect.

Score: 0

Accepted Answers:

DMAIC yields products and services that provide great customer satisfaction and increased market share than DFSS.

10) Improving quality through small, incremental improvements is a characteristic of what type of quality management system? **1 point**

- Just-in-time
- Six Sigma
- Kaizen
- Total Quality Management

No, the answer is incorrect.

Score: 0

Accepted Answers:

Kaizen

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