ICBB<sup>Q&As</sup>

IASSC Certified Lean Six Sigma Black Belt

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**QUESTION 1**

A Belt working in a supply chain environment has to make a decision to change suppliers of critical raw materials for a new product upgrade. The purchasing manager is depending on the Belt\\'s effort requiring that the average cost of an internal critical raw material component be less than or equal to $4,200 in order to stay within budget. Using a sample of 35 first article components, a Mean of the new product upgrade price of $4,060, and a Standard Deviation of $98 was estimated. Select the answer that best states the Practical Problem.

A. If the average cost per component is $4,200 or less, then the purchase manager will introduce the new product upgrade with new components.

B. If the average cost per component is greater than $4,200, then the purchase manager will introduce the new product upgrade with new components.

C. Only if the average cost per product upgrade is $4,060, will the purchase manager introduce new product upgrades with new components.

D. If the average cost per new product upgrade is less than $180, then the purchase manager will introduce the new product upgrade with new components.

Correct Answer: C

**QUESTION 2**

Taguchi loss function is primarily intended to:

A. Attain unprecedented levels or performance

B. Describe the relation between input variables (Xs) influencing a process and the process and the output of the process (Y)

C. Evaluate the financial impact on account of process deviation from target

D. Establish quality standards and to check conformance to standards

Correct Answer: C

**QUESTION 3**

A process has the following number of defects:

4, 8, 2, 7, 7, 9, 4, 6, 7, 3

Each sample size for this process is 80.

Find the UCL.

A. 11.42

B. 13.12

C. 12.86

D. 10.55

Correct Answer: C

QUESTION 4

Use this data to calculate the Z score. Average oF. 65, Standard Deviation: 3, Upper Spec Limit: 72

A. 0.27

B. 1.5

C. 2.33

D. 4.12

Correct Answer: C

QUESTION 5

"A calculated time frame that matches customer demand" is a definition of what Lean Principles term?

A. Value Stream

B. Kaizen event

C. Takt time

D. Kanban

Correct Answer: C

QUESTION 6

For a batch manufacturing process, while assessing short term process variation, which variation category (ies) should one need to focus on? (Note: There are 2 correct answers).

A. Variation within consecutive pieces

B. Variation among consecutive batches

C. Variation among groups of pieces

D. Variation among the completed product

Correct Answer: AB

**QUESTION 7**

In which phase of the DMAIC the root causes of the defects are identified?

A. Define

B. Measure

C. Analyze

D. Control

Correct Answer: C

**QUESTION 8**

`A drug was given to 10 patients and the increase in blood pressure was recorded to be 3, 6, -2, 4, -3, 4, 6, 0, 0, and 2. Is it reasonable to believe that the drug has no effect on the change of blood pressure?\\' Which suitable test statistic can you use?

A. F test

B. One sample t-test

C. One sample z-test

D. One proportion z-test

Correct Answer: C

**QUESTION 9**

Which of the following is not a component of Garvin\\'s five definitions of quality?

A. Product based definition

B. Process based definition

C. Manufacturing based definition

D. Value based definition

Correct Answer: B

**QUESTION 10**

Which of the following is not a time estimates for PERT?

A. Pessimistic time

B. Most likely time

C. Optimistic time

D. Waiting time

Correct Answer: D

## QUESTION 11

Which of these elements are not included in Implementation plans?

A. Work breakdown structure

B. Cost/Benefit ratios

C. Risk management plans

D. Planned audits of work completion

Correct Answer: B

## QUESTION 12

Kaizens or Kaikakus and Six Sigma projects are intended to create breakthrough, significant process improvement versus minor, incremental improvements.

A. True

B. False

Correct Answer: A

## QUESTION 13

Which statement(s) are incorrect for the Regression Analysis shown here? (Note: There are 2 correct answers).

```
Regression Analysis: Turbine Output versus Air-Fuel Ratio, % steam, ...
The Regression Equation is
TurbineOutput = 16.5 + 3.21 Air-Fuel Ratio + 0.386 % methane
                + 0.0166 SteamExitTemp

Predictor            Coef    SE Coef      T       P
Constant           16.488      2.918    5.65   0.000
Air-Fuel Ratio      3.2148     0.2377  13.52   0.000
% methane           0.38637    0.07278  5.31   0.000
SteamExitTemp       0.016576   0.004273 3.88   0.004

S = 0.508616   R-Sq = 98.6%    R-Sq(adj) = 98.2%
Analysis of Variance
Source           DF       SS       MS       F       P
Regression        3   170.003   56.668  219.06  0.000
Residual Error    9     2.328    0.259
Total            12   172.331

Source           DF    Seq SS
Air-Fuel Ratio    1   159.048
% methane         1     7.062
SteamExitTemp     1     3.892
```

A. The air-fuel ratio explains most of the TurbineOutput variation

B. The Regression explains over 98% of the process variation

C. This Multiple Linear Regression has three statistically significant independent variables

D. If the air-fuel ratio increases by 1, the TurbineOutput more than triples

E. The SteamExitTemp explains the most variation of the TurbineOutput

Correct Answer: DE

## QUESTION 14

A(n) _____ is best used to compare a Machine 1 average quality characteristic to the same quality characteristic of Machine 2.

A. F test

B. 1-Sample t-test

C. 2-Sample t-test

D. ANOVA test

Correct Answer: C

## QUESTION 15

Fractional Factorial Designs are used to analyze factors to model the output as a function of inputs if Hypothesis Testing in the Analyze Phase was inadequate to sufficiently narrow the factors that significantly impact the output(s).

A. True

B. False

Correct Answer: A