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QUESTION 1

The generation of a Regression Equation is justified when we _____.

A. Expect the relationship to be Linear between the output and inputs

B. Experience several process defects and have no other way to fix hem

C. Need to understand how to control a process output by controlling the input(s)

D. All of the above

Correct Answer: D

QUESTION 2

The length of wooden beams being sawed is measured by a line operator. Which is least likely to be influenced by the instrument?

A. Calibration of the instrument

B. Actual temperature of the liquid

C. Recording the measurement

D. Reading of the instrument

Correct Answer: C

QUESTION 3

A. Are downtime issues easily noted?

B. Can extra inventory be seen easily?

C. Are unneeded tools or supplies easily noted?

D. Are setups optimized for lower scrap levels?

Correct Answer: D

QUESTION 4

Post delivery defects are aimed to be

A. You will Change your Specification limits

B. Shift your specification limits to target

C. Shift your mean performance within specification limits

D. No action required

Correct Answer: C

QUESTION 5

To minimize waste through the application of Lean Principles we do which of the following?

A. Organize tools and raw materials

B. Keep the work area clean and organized

C. Maintain a proper volume of inventory at hand

D. All of these answers are correct

Correct Answer: D

QUESTION 6

It is also important to look at the market for the next two to five years and estimate how it will change and grow and this requires:

A. a look at the balance sheet for the previous year

B. a look at the cash flow of the company

C. a look at all potential customers and their requirements.

D. a look at the vendor management team and the vendor performance

Correct Answer: C

QUESTION 7

Kano Model depicts the following from the customer, EXCEPT:

A. Delighters

B. Satisfiers

C. Must-Be

D. Objections

Correct Answer: D

QUESTION 8

Which statement(s) are correct for the Regression Analysis shown here?

Regression Analysis: HeatFlux versus %Cu, Thickness
```
The Regression Equation is
HeatFlux = 484 + 4.80 %Cu - 24.2 Thickness

Predictor       Coef    SE Coef        T       P
Constant      483.67      39.57    12.22   0.000
%Cu           4.7963     0.9511     5.04   0.000
Thickness    -24.215      1.941   -12.48   0.000

S = 8.93207    R-Sq = 85.9%    R-Sq(adj) = 84.8%
Analysis of Variance
Source            DF        SS       MS      F       P
Regression         2   12607.6   6303.8  79.01   0.000
Residual Error    26    2074.3     79.8
Total             28   14681.9

Source       DF    Seq SS
%Cu           1     184.5
Thickness     1   12423.1

Unusual Observations
Obs    %Cu   HeatFlux      Fit   SE Fit   Residual   St Resid
  1   40.6     271.80   274.74     5.08      -2.94     -0.40 X
 22   36.3     254.50   230.91     2.39      23.59      2.74R

R denotes an observation with a large standardized residual.
X denotes an observation whose X value gives it large influence.
```

A. This Regression is an example of a Multiple Linear Regression.

B. This Regression is an example of Cubic Regression.

C. Thickness explains over 80% of the process variance in heat flux.

D. Both a and c

Correct Answer: D

QUESTION 9

When a Belt decides to use written procedures and visual controls to improve the consistency of the tasks that must occur in the process he is improving he has utilized the _____ activity of 5S.

A. Sustaining

B. Sorting

C. Standardizing

D. Straightening

Correct Answer: C

QUESTION 10

The Mann-Whitney Test is used to test if the Means for two samples are different.

A. True

B. False

Correct Answer: B

QUESTION 11

In an Attribute MSA which is a study that includes a set of trials to assess the ability of the operator to use an operational definition?

A. Discrete Measurement Study

B. Crossed Design

C. Signal Averaging

D. Operator Measurement Study

Correct Answer: A

QUESTION 12

A key metric in Six Sigma is the DPMO which stands for _____?

A. Delayed production metrics output

B. Defects by management oversight

C. Defects per million opportunities

D. Developed production management oversight

Correct Answer: C

QUESTION 13

Which of the following is used to test the significance for the analysis of a Variance Table?

A. t Test

B. F Test

C. Chi Square Test

D. Acid Test

Correct Answer: B

QUESTION 14

Training cost is $3,000 and a project required an initial investment of $12,000. If the project yields monthly savings of $1,800 beginning after 3 months, what is the payback period in months (before money costs and taxes)?

A. 4.17

B. 8.33

C. 11.33

D. 28.28

Correct Answer: C

QUESTION 15

Who is responsible for adherence to the Monitoring Plan?

A. Six Sigma Resource

B. Champion

C. Process Manager

D. Compliance Director

Correct Answer: C

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