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QUESTION 1

If the production is for higher volume and monitoring and the Mean and variability is to be monitored for four machines producing product and the characteristic to be monitored is Variable Data, which SPC Chart is best to be selected?

- A. Xbar-R Chart
- B. Individual-MR Chart
- C. NP Chart
- D. CUSUM Chart

Correct Answer: A

QUESTION 2

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 3

For a multiple regression model, the R² is the parameter that:

- A. Represents the fraction of total variation explained by the model
- B. Explains the strength of only one of the inputs in the model
- C. Explains if the input factor causes the output response
- D. Quantifies the slope of the line in the model

Correct Answer: A

QUESTION 4

When assessing gauge performance, you should look at the following (Choose the best answer).

- A. Repeatability



- B. Reproducibility
- C. Repeatability and reproducibility
- D. Improve variation of process being measured

Correct Answer: C

QUESTION 5

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

Regression Analysis: Turbine Output versus Air-Fuel Ratio, % steam, ...

The Regression Equation is
 $TurbineOutput = 16.5 + 3.21 \text{ Air-Fuel Ratio} + 0.386 \text{ \% methane} + 0.0166 \text{ SteamExitTemp}$

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 Regression explains 50.8% of the process variation
- B. The air-fuel ratio explains most of the TurbineOutput variation
- C. This Simple Linear Regression explains 98+% of the process variation
- D. This Multiple Linear Regression has four statistically significant independent variables

Correct Answer: B

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