

# ICYB<sup>Q&As</sup>

IASSC Certified Lean Six Sigma Yellow Belt

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**QUESTION 1**

The purpose of a Process Map is to identify the complexity of the process and to assist in identifying \_\_\_\_\_ in the process.

- A. Critical steps
- B. Line operators
- C. Test stations
- D. Defects

Correct Answer: A

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**QUESTION 2**

The purpose of \_\_\_\_\_ is to analyze data and present it in a way we can make informed decisions as to what is happening in our process.

- A. Data Sampling
- B. Basic Statistics
- C. Calculating Standard Deviation
- D. Measurement System Analysis

Correct Answer: B

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**QUESTION 3**

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

- A. Collect sample data
- B. Keep the work area clean and organized
- C. Calibrate our measurement tools
- D. Survey the customer

Correct Answer: B

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**QUESTION 4**

The Pareto Chart is a tool that displays data that typically follows what ratio?

- A. 70:30
- B. 80:20
- C. 90:10
- D. 95:5

Correct Answer: B

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**QUESTION 5**

The formula  $Y = f(X_n)$  is a method of expressing the concept that the output of a process is a function of all the \_\_\_\_\_?

- A. Materials and labor
- B. Inputs to the process
- C. Line personnel and direct supervision
- D. Employees of the company

Correct Answer: B

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**QUESTION 6**

Which graphical tool is used to display the relative frequency of the number of times a measured item falls within a certain cell size?

- A. Time Series Plot
- B. Scatter Plot
- C. Box Plot
- D. Histogram

Correct Answer: A

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**QUESTION 7**

The RPN or Risk Priority Number is used to rank the various Failure Modes as to their impact on the output of the subject process.

- A. True
- B. False

Correct Answer: A

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**QUESTION 8**

When we create a Process Map we use a \_\_\_\_\_ to show the direction of work flow.

- A. Solid line arrow
- B. Dashed line arrow
- C. Series of dots
- D. Double lines

Correct Answer: A

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**QUESTION 9**

Which element of waste best refers to “having to fix a defect”?

- A. Waiting
- B. Motion
- C. Inventory
- D. Correction

Correct Answer: D

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**QUESTION 10**

What is the recommended tool when multiple improvements are being evaluated?

- A. Control Plan
- B. Implementation Plan

C. X-Y Matrix

D. FMEA

Correct Answer: A

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#### QUESTION 11

Which of the following are needed to calculate the process capability index, Cp?

A. The specification limits and the Mean

B. The specification limits and  $\sigma$  (Sigma Cap)

C. The process Mean and  $\sigma$  (Sigma Cap)

D. The upper and lower specification limits

Correct Answer: D

Reference: [https://en.wikipedia.org/wiki/Process\\_capability\\_index](https://en.wikipedia.org/wiki/Process_capability_index)

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#### QUESTION 12

With a Fishbone Diagram we use the legs to define each source of a potential defect and along the legs we enter each potential means by which a defect could be introduced into our process.

A. True

B. False

Correct Answer: A

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#### QUESTION 13

A \_\_\_\_\_ is a graphical presentation of sample data that shows the number of times that a data point is a specific number.

A. Fishbone Diagram

B. Histogram

C. Pie Chart

D. Box Plot

Correct Answer: B

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**QUESTION 14**

A Lean Principle that states the process of eliminating waste is a continual process requiring one to always be on the lookout for ways to reduce the seven elements of waste is known as \_\_\_\_\_ .

- A. Kaizen
- B. Ishikawa
- C. Kanban
- D. Muda

Correct Answer: A

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**QUESTION 15**

The ROI for a project is a measurement metric that stands for Return on Investment and is one of the methods used to measure the success of a Lean Six Sigma project.

- A. True
- B. False

Correct Answer: A

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