

Lean Six Sigma Yellow Belt Sample Questions_ENG

Study: Lean Six Sigma – Yellow Belt

Multiple Choice:

1. All 10 questions should be attempted.
2. Please use a pen to mark your answers in the Answer Sheet provided.
3. There is only one correct answer per question.
4. You have 15 minutes for this exam.
5. The language of exam is in English.
6. You must get 7 or more correct to pass.
7. This is an open book exam.

Candidate name: _____

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- 1 What method aims to provide a rapid and efficient way of converting a manufacturing process from producing the current product to producing a different product?
 - a. Kaizen Continuous Improvement
 - b. Single Minute Exchange of Dies
 - c. Six Sigma
 - d. Value Stream Mapping

- 2 Why is the 'One-Factor-at-a-Time' (OFAT) approach inferior to the 'Design of Experiments' (DOE) approach?
 - a. Experiments are more complicated
 - b. Expert knowledge is needed
 - c. Results are difficult to interpret
 - d. Interactions between factors are NOT revealed

- 3 Which of the following elements should be included in a Control plan?
 1. Failure Mode and Effect Analysis
 2. Out-of-Control Action Plan
 3. Product and process characteristics
 4. Actions to minimise potential failures
 - a. 1, 2, 3
 - b. 1, 2, 4
 - c. 1, 3, 4
 - d. 2, 3, 4

- 4 Which type of 'Customer Waste' is **MOST** likely to be the cause of an end product that fails to meet the customer's expectations?
- a. Delay
 - b. Duplication
 - c. Over-production
 - d. Unclear communication
- 5 Which documentation describes how to accomplish a specific task within a Quality Management System (QMS)?
- a. Statement of requirement
 - b. Standard operation procedure
 - c. Time and motion study
 - d. Records and forms
- 6 What is the Process Capability index (Cp) formula where USL is the Upper Specification Limit, LSL is the Lower Specification Limit and S is the standard deviation?
- a. $Cp = (LSL - USL) / 3S$
 - b. $Cp = (LSL - USL) / 6S$
 - c. $Cp = (USL - LSL) / 3S$
 - d. $Cp = (USL - LSL) / 6S$
- 7 Which is the philosophy shared by Lean and Six Sigma?
- a. Favour the values of the customer over those of the organization
 - b. Always set out to win, at the expense of all others
 - c. Enhance customer value to help an organization achieve its goals
 - d. Focus on producing higher volumes of stock and sell them cheap

- 8 Which is **NOT** one of the eight pillars within the TPM 'House of Quality'?
- a. Focused improvement
 - b. Training and education
 - c. Quality maintenance
 - d. Emergency planning
- 9 Which is a focus of Operational Excellence?
- a. Increasing sales
 - b. Customer needs
 - c. Change management
 - d. Management skills
- 10 Which is a principle of Lean?
- a. Reduce quality to increase profit
 - b. Achieve the perfect demand stream
 - c. Identify the value stream and eliminate waste
 - d. Increase production with a reduced workforce

Correction model

1. B
1 pt.

2. D
1 pt.

3. D
1 pt.

4. D
1 pt.

5. B
1 pt.

6. D
1 pt.

7. C
1 pt.

8. D
1 pt.

9. B
1 pt.

10. C
1 pt.