

Question 7

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Question

In what time study technique does the technologist read the watch and immediately snap back to zero each time an element ends, and the watch restart automatically timing the next element.

Select one:

- ☐ a. Continuous time study.
- ☒ b. Snapback time study.
- ☐ c. Three watch time study.
- ☐ d. A and C

[Clear my choice](#)

Question 8

Answer saved

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Question

Which of the following is a problem encountered in measuring productivity

Select one:

- ☒ a. Nonhomogeneous output units.
- ☐ b. Multiple input factors.
- ☐ c. Product mix changes.
- ☐ d. All of the above are problems.

If the standard time for a repetitive task is equal to 3 min per piece. How many pieces are produced in an 8 hours shift at standard performance

Select one:

- ☐ a. 22.5
- ☒ b. 160
- ☐ c. 240
- ☐ d. 180
- ☐ e. None of the above

[Clear my choice](#)

Productivity is defined as the level of output of a given process relative to the level of input

Select one:

- ☒ True
- ☐ False

If the starting materials or parts are out of specifications, and extra time is needed to correct the nonconformance. This is an example \_\_\_\_\_

Select one:

- ☐ a. Personal allowances
- ☐ b. Fatigue allowances
- ☒ c. Contingency allowances
- ☐ d. All of the above is correct

[Clear my choice](#)

The direct time study technique is more accurate than the estimation or historical records techniques

Select one:

- ☒ True
- ☐ False

Question 12

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Question

If the average observed time for an element is 2.00 minutes and the performance rating is 80%, what is the normal time for this element?

Select one:

- ☒ a. 1.60 minutes
- ☐ b. 2.50 minutes
- ☐ c. 2.00 minutes
- ☐ d. cannot be determined from the information given

[Clear my choice](#)

Question 13

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Question

An organization wishes to conduct a work sampling procedure of their facility. They wish to use a 95.45% confidence level ( $z=2$ ), the estimated percent of idle time is 35%, and the acceptable error is 5%. What should their sample size be?

Select one:

- ☐ a. 182
- ☐ b. 728
- ☒ c. 364

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The statistical technique for determining the proportion of time spent by subjects in various defined categories of activity is known as:

Select one:

- ☐ a. PTSS
- ☐ b. Direct time study.
- ☒ c. Work sampling.
- ☐ d. Work measurement.

Clear my choice

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What kind of people you should not time study?

Select one:

- ☐ a. The fastest person on the job.
- ☐ b. The slowest person on the job.
- ☐ c. Employee with negative attitudes.

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e. None of the above

Clear my choice

Question **21**

Answer saved

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20

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question

Which one of the following statements concerning work sampling is not true?

Select one:

- ☐ a. It can be used to estimate the percentage of delay.
- ☒ b. A detailed description of activities is obtained.
- ☐ c. There is little or no disruption of work.
- ☐ d. Observations are made at random intervals.
- ☐ e. Multiple observations are necessary

Clear my choice

Question **22**

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Operations and activities that are impractical or too costly to measure by work sampling can be measured using continuous observations (direct time study).

Question 6

Answer saved

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question

The type of process activity which appears in the operation chart is

Select one:

- ☐ a. Operation
- ☐ b. Inspection
- ☐ c. Move
- ☐ d. Delay
- ☒ e. Both A and B are correct

[Clear my choice](#)

Question 7

Answer saved

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question

In what time study technique does the technologist read the watch and immediately snaps it back to zero each time an element ends, and the watch restart automatically timing the next element.

Select one:

a. Continuous time study

Click here to search



- ☒ d. it is less expensive

[Clear my choice](#)

Question 5

Answer saved  
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Question

A rating greater than 100% means that the worker is working faster than standard pace, and less than 100% means the worker is slower than the standard.

Select one:

- ☒ True  
☐ False

Question 6

Answer saved  
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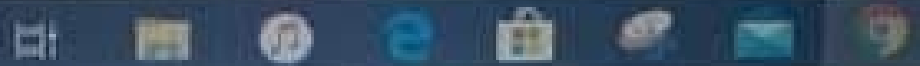
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Question

The type of process activity which appears in the operation chart is

Select one:

- ☐ a. Operation  
☐ b. Inspection  
☐ c. Move

Search here to search



[Clear my choice](#)

Question 20

Answer saved

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Flag question

What is the optimal number of machines that should be assigned to one operator, given that the work cycle time of the machine is equal to 6.25 minutes, the loading and unloading time for the part is equal to 1.25 minutes, and the walk time to the next machine is equal to 0.25 minutes.

Select one:

- ☐ a. 3
- ☐ b. 4
- ☒ c. 5
- ☐ d. 6
- ☐ e. None of the above

[Clear my choice](#)

Question 21

Answer saved

Which one of the following statements concerning work sampling is not true?

Type here to search





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question

Select one:

- ☒ a. Predetermined motion time systems.
- ☐ b. Standard data formula time standards.
- ☐ c. Stopwatch time study.
- ☐ d. Work sampling time standards.

[Clear my choice](#)

Question 28

Answer saved

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question

The objective of the lean manufacturing is to eliminate the waste.

Select one:

- ☒ True
- ☐ False

Question 29

Answer saved

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The average observed time for a repetitive work cycle in a direct time study was 5.22 minutes. The worker was performance rated by an analyst at 85%. calculate the normal time for this task.

- ☒ d. Observations are made at random intervals.
- ☐ e. Multiple observations are necessary

[Clear my choice](#)

Question 22

Answer saved

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Question

Operations and activities that are impractical or too costly to measure by work sampling can be measured using continuous observations (direct time study).

Select one:

- ☒ True
- ☐ False

Question 23

Answer saved

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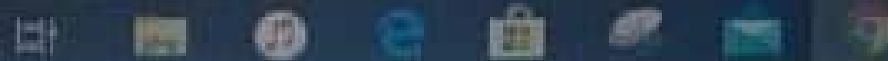
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Question

An advantage of the continuous method is : " when the clock is continuously running, elements are not as easily omitted by mistake".

Select one:

- ☒ True
- ☐ False

Search here to search:



- ☒ True
- ☐ False

24

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Direct time study is another name of:

Select one:

- ☐ a. Standard data system.
- ☒ b. Stopwatch time study.
- ☐ c. Work sampling.
- ☐ d. PTSS

[Clear my choice](#)

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Answer saved

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Flag question

The worker was performance rated by an analyst at 85%. calculate the normal time for this task

Select one:

- ☒ a. 4.437 minutes
- ☐ b. 6.1412 minutes
- ☐ c. 5.22 minutes
- ☐ d. 4.698 minutes

[Clear my choice](#)

Question 30

Answer saved

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Flag question

For highly repetitive jobs with short cycle times performed by one worker, and for those jobs requiring an immediate measurement of a task, work sampling is the preferred time study technique.

Select one:

- ☐ True
- ☒ False



Type here to search



Question 17

Answer saved

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question

Work sampling provides more detailed information about the work elements of task than direct time study or predetermined time systems.

Select one:

- ☐ True
- ☒ False

Question 18

Answer saved

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question

The step in direct time study in which the analyst observes the worker's performance and records a value representing that performance relative to the analyst's concept of standard performance is:

Select one:

- ☒ a. Performance rating.
- ☐ b. Performance leveling.





Question 25

Answer saved

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Flag question

Which of the following are considered delay allowances?

Select one:

- ☐ a. Getting a drink
- ☒ b. Training new employees
- ☐ c. Talking to a friend about nonwork subjects.
- ☐ d. both A and C.

[Clear my choice](#)

Question 26

Answer saved

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Flag question

Process charting is used in conjunction with flow diagramming. The same symbols can be used in both techniques. The flow diagram is the words and numbers, whereas the process chart is the picture.

Select one:

- ☐ True
- ☒ False

Clear my choice

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Productivity is defined as the level of output of a given process relative to the level of input

Select one:

- ☒ True
- ☐ False

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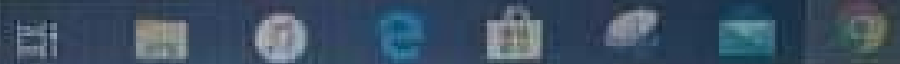
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tion

One advantage of work sampling over time study methods is

Select one:

- ☐ a. it divides work elements more completely
- ☐ b. the studies must be done in one uninterrupted block of time, so there is no delay in obtaining results
- ☐ c. timing devices are used to eliminate bias
- ☒ d. it is less expensive

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Question 9

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Question

In the continuous timing method the analyst can readily see how the element times vary from one cycle to the next.

Select one:

- ☐ True
- ☒ False

Question 10

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Where to search

If the starting materials or parts are out of specifications, and extra time is needed to correct the nonconformance. This is an example \_\_\_\_\_

Select one:



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## METHODS ENGINEERING AND WORK MEASUREMENT

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METHODS ENGINEERING AND WORK MEASUREMENT

General

Final Exam

Time left 0:46:14

The following statement are correct regarding the operation chart Except:

- ☒ a. the operation chart consist of a vertical stems each of which starts with a purchased parts or raw materials and depicting the sequence of operations performed on a given component.
- ☐ b. operation chart is a graphical and symbolic representation of the operations used to produce a product or the operations done by some one.
- ☐ c. None the choices are correct.
- ☐ d. the far right column of the char is used to represent the component to which all other operations or process in the chart are assembled or joined.
- ☐ e. operation chart uses two types of operations to represent the system: processing or assembly operation and inspection operation.



[Clear my choice](#)

Question 19

Answer saved

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question

Which of the following is another name of work sampling

Select one:

- ☐ a. Activity sampling.
- ☐ b. Occurrence sampling.
- ☐ c. Ratio delay study.
- ☒ d. All of the above.

[Clear my choice](#)

Question 20

Answer saved

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question

What is the optimal number of machines that should be assigned to one operator, given the work cycle time of the machine is equal to 6.25 minutes, the loading and unloading the part is equal to 1.25 minutes, and the walk time to the next machine is equal to 0.25 minutes.

Question 17

Answer saved

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Flag  
question

Work sampling provides more detailed information about the work elements of task than direct time study or predetermined time systems.

Select one:

- ☐ True
- ☒ False

Question 18

Answer saved

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question

The step in direct time study in which the analyst observes the worker's performance and records a value representing that performance relative to the analyst's concept of standard performance is:

Select one:

- ☒ a. Performance rating.
- ☐ b. Performance leveling.



Question 8

Answer saved

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Question

Which of the following is a problem encountered in measuring productivity

Select one:

- ☒ a. Nonhomogeneous output units.
- ☐ b. Multiple input factors
- ☐ c. Product mix changes
- ☐ d. All of the above are correct

[Clear my choice](#)

Next page

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- ☒ True
- ☐ False

24

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Direct time study is another name of:

Select one:

- ☐ a. Standard data system.
- ☒ b. Stopwatch time study.
- ☐ c. Work sampling.
- ☐ d. PTSS

[Clear my choice](#)

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# METHODS ENGINEERING AND WORK MEASUREMENT

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METHODS ENGINEERING AND WORK MEASUREMENT

General

Final Exam

Question 1

Answer saved

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Question



Which of the following is a technique of time study?

Select one:

- ☐ a. Operations chart.
- ☐ b. Flow diagram.
- ☐ c. Process chart.
- ☒ d. Predetermined motion time systems.

[Clear my choice](#)

Question 2

Answer saved

Where to search

If the standard time for a repetitive task is equal to 3 min per piece. How many pieces are produced in an 8 hours shift at standard performance

