Time left 0:34:09

Question 10

Not yet answered

Marked out of 1.00

Flag question

Worker		Time	Machine 1		Time	Cum. time
Unload finished part from machine		0.10				0.10
Load raw part, engage auto cycle		0.12				0.22
Transport finished part, deposit in tote pan, walk to raw parts tote pan, pick up and transport to machine		0.51	Machine cycle		0.75	0.97

Which statement is **not true**

- a. Unloading is an external work
- b. Loading is external work
- c. Transportation is an external work
- d. This chart is worker machine activity chart
- e. none

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:59:08

Question 1

Not yet answered

Marked out of 1.00

Flag question

A work group of 10 workers in a certain month produced 700 units of output working 8 hr/day for 22 days in the month. Suppose that in the next month, the same work group produced 1000 units but there were only 20 workdays in the month. determine the productivity index using the prior month as a base.

- a. 0.99
- b. none
- c. 1.2
- d. 1.57
- e. 1.34

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

Question 14

Not yet answered

Marked out of 1.00

Flag question

Time left 0:08:05

The activity putting the finished goods in inventory after finishing the production is

Date:	Flow Process Chart		Page ___ of ___		
Analyst:	Approval:	Summary of Activities			
Job:	Part No:	Activity (symbols)	Count	Time	Distances
Material:		A (○, O)			
Description:		B (□, I)			
		C (→, M)			
		D (D, D)			
		E (▽, S)			

- a. E
- b. A
- c. C
- d. B
- e. D

1 2 3 7 8 9 13 14 15

Finish attempt

here to search

Time left 0:20:43

Question 8

Not yet answered

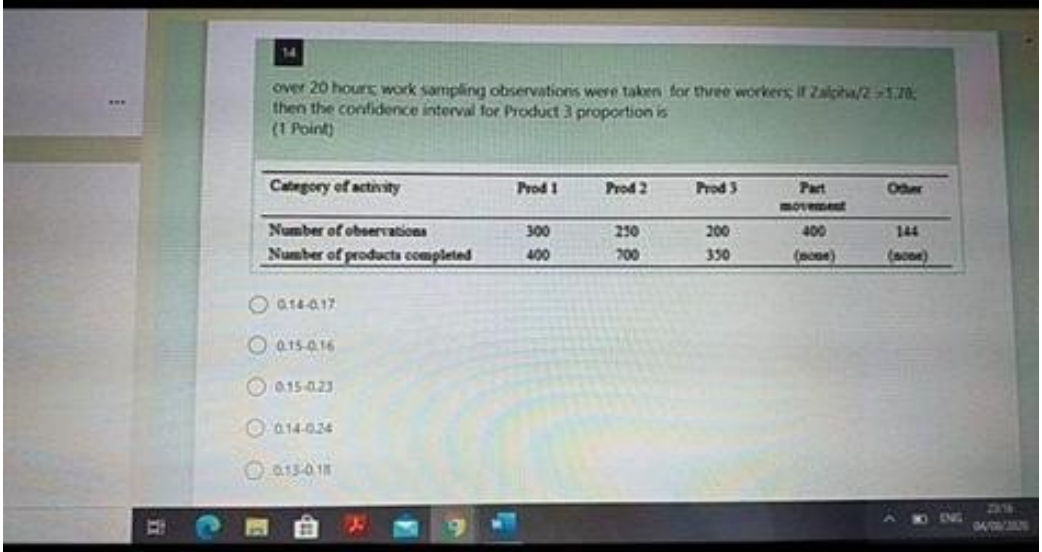
Marked out of 1.00

Flag question

over 20 hours; work sampling observations were taken for one workers; Product Pr2 mean time / part

Cat	Pr1	Pr2	Pr3	Move	Other	
N observ.	300	250	200	400	144	1294
N products	400	700	350	none	none	1450

- a. 2.2
- b. 1.2
- c. 0.33
- d. 0.69
- e. 2.1



14

over 20 hours; work sampling observations were taken for three workers; if Zalpha/2 =1.28; then the confidence interval for Product 3 proportion is
(1 Point)

Category of activity	Prod 1	Prod 2	Prod 3	Part movement	Other
Number of observations	300	250	200	400	144
Number of products completed	400	700	350	(none)	(none)

- 0.14-0.17
- 0.15-0.16
- 0.15-0.23
- 0.14-0.24
- 0.13-0.18

Time left 0:02:29

Question 15

Not yet answered

Marked out of 1.00

Flag question

The best diagram to represent material purchase order through different departments starting with inventory report of need is:

- a. flow diagram
- b. cross-functional process map
- c. multiple activity chart
- d. Gantt chart
- e. operations chart

Clear my choice

Finish attempt ...

Quiz n

1 2 7 8 13 14

Finish atte

Time left 0:28:11

Question 6

Not yet answered

Marked out of 1.00

Flag question

over 20 hours; work sampling observations were taken for one workers; Product Pr2 mean time / part

Cat	Pr1	Pr2	Pr3	Move	Other	
N observ.	300	250	200	400	144	1294
N products	400	700	350none	none		1450

- a. 2.2
- b. 0.69
- c. 2.1
- d. 0.33
- e. 1.2

Clear my choice

8:27

juexams.com

Time left 0:12:24

Question 8

Not yet answered

Marked out of 1.00

Flag question

when you move your right hand 18 inches to a location that may vary slightly; expected TMU's

- a. 12.5
- b. 19.8
- c. 13.1
- d. 18.6
- e. 17.2

Clear my choice

Next page

Quiz navigation

1 2 3 4 5 6 7

8:22

MESSENGER now

Baraa Alkhawaja
To Electrical
Sent a photo.

Not yet answered

Marked out of 1.00

Flag question

Work is divided in jobs then tasks, then work elements then motion element, The name for the A basic motion element in micromotion study is:

- a. MOST
- b. MTM
- c. work sample
- d. None of the above
- e. therblidg

Next page

Quiz navigation

1 2 3 4 5 6 7

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:46:15

Question 2

Not yet answered

Marked out of 1.00

Flag question

The MOST system that includes tool use gives which of the following

- a. $A_{16}B_6G_1A_1B_0P_1A_{16}$
- b. A3B0G1M1X70I0A0
- c. A10B6G1A10B0P1A0
- d. none
- e. $A_6B_0G_1A_6B_0P_3F_8A_0B_0P_0A_0$

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:47:44

Question 6

Not yet answered

Marked out of 1.00

Flag question

A total of 9 cycles have been observed during a direct time study. The mean for the largest element time = 2.1 min, and the corresponding sample standard deviation s = 0.330 min. how many more observations should be taken, If the analyst wants to be 98% confident (t = 2.896) that the mean of the sample was within ±10% of the true mean, how many more observations should be taken?

- a. 12
- b. 10
- c. 1
- d. 71
- e. 5

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

8:16
juexams.com

Flag question

Time left 0:23:23

The student was carrying a pen initially in his hand
The therbligs for:
He then moved it to the paper positioned it onto the paper , and wrote with it a whole line. He then moved the pen to rack and placed it on rack.

- a. M PP W M RE
- b. M PP U M RI
- c. M PP W M RI
- d. TL PP U TL RL
- e. TL PP W TL RE

Clear my choice

Next page

Quiz navigation

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:46:22

Question 3

Not yet answered

Marked out of 1.00

Flag question

The cycle (standard time) for the 2.2 minutes, the set-up time is 20 minutes if we want to produce 1000 pieces what is the batch Time Tb.

- a. 5220
- b. 1220
- c. 4420
- d. 3220
- e. 2220

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

Finish attempt ...

MESSENGER now

Manar Amjad

To تايم 😉😉

مين حل ع١٨

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Time left 0:09:30

Flag question

If the expected normal time for the operation is several days with no prior knowledge; then the best time study method is:

- a. MTM
- b. work sampling
- c. MOST
- d. SDS
- e. direct time study

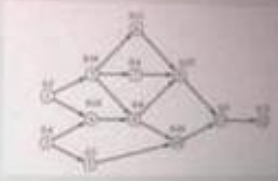
Clear my choice

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14

14



Use line balancing largest candidate rule, if the cycle time Tc=1.2; then the cycle time for the second workstation is * (1)
(2 Points)

- 1.01
- 1.12
- 1.04
- 1.32
- 0.94

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:

Time left 0:18:44

Question 9

Not yet answered

Marked out of 1.00

Flag question

a worker moves his hand 40 inches open his fingers and grasp an object move it to the assembly spot infront of the worker; this is repeated ten times; The one principle that cannot be applied to improve this is:

- a. The two hands should begin and end their motions at the same time
- b. Take advantage of gravity
- c. Hand and arm motions should be symmetrical and simultaneouThe two hands should begin and end their motions at the same time
- d. Design work to fully utilize both hands
- e. Worker's two hands should not be idle at the same time

Clear my choice

Next page

Quiz

1

7

13

Finish

8:15

MESSENGER now

Abdallah Mahjoob Almaharmah
To تايم 😉😉
Sent a photo.

Not yet answered

Marked out of 1.00

Flag question

The student was carrying a pen initially in his hand
The therbligs for:
He then moved it to the paper positioned it onto the paper , and wrote with it a whole line. He then moved the pen to rack and placed it on rack.

- a. M PP W M RE
- b. M PP U M RI
- c. M PP W M RI
- d. TL PP U TL RL
- e. TL PP W TL RE

Clear my choice

Next page

Time left 0:42:53

Question 5

Not yet answered

Marked out of 1.00

Flag question

Using work sampling, a planned total of 1854 observations (4 x 25 x 12). for 3 workers in 30 days 8 working hours/day.

Category	A assembly	B assembly	C assembly	Miscellaneous
Number of observations	450	717	516	171
Number of units completed	1000	550	233	(none)

What is the average time for the assembly of an B Unit in minutes

- a. 30.4
- b. 51.6
- c. 10.5
- d. 21.3
- e. 41.2

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

8:35

MESSENGER now

Baraa Alkhawaja
To Electrical
طيب بطريقك اذا فهمتي

Time left 0:04:49

Question 11

Not yet answered

Marked out of 1.00

Flag question

A mynard most sequence; what is the time in seconds for the operation

A1B0G1A1B3P6A0

- a. 12
- b. 120
- c. 42
- d. 4.3
- e. 13.7

Clear my choice

Next page

Time left 0:41:09

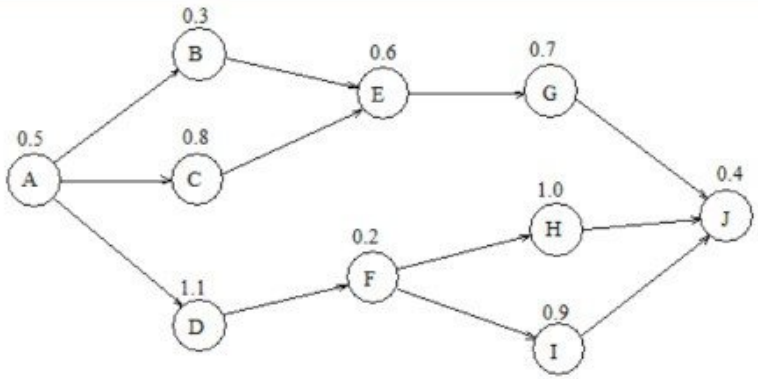
Question 7

Not yet answered

Marked out of 1.00

Flag question

When Using the largest candidate rule to assign work elements to stations using a service time (T_s)=1.7 min, the third workstation is composed of



- a. C E
- b. D G
- c. G F
- d. G H
- e. D E

Next page

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

8:19

juexams.com

Time left 0:20:33

Question 5

Not yet answered

Marked out of 1.00

Flag question

The student placed the pen away on the table (no movement); the closest therblig in this is

- a. RL
- b. SH
- c. RE
- d. TE
- e. G

Clear my choice

Next page

Quiz navigation

1 2 3 4 5 6 7

8:36
juexams.com

Question 12

Not yet answered

Marked out of 1.00

Flag question

Time left 0:03:39

The best diagram to represent material purchase order through different departments starting with inventory report of need is:

- a. Gantt chart
- b. cross-functional process map
- c. multiple activity chart
- d. operations chart
- e. flow diagram

Clear my choice

Next page

Quiz navigation

8:37

juexams.com

Question 14

Not yet answered

Marked out of 1.00

Flag question

Time left 0:02:06

r d which is done once every five cycles if the Apfd is 0.14 what is the standard time for the direct time study

Work element	a	b	c	d	
min		0.55	0.31	0.47	0.
Pr		0.95	1	1.1	0.

- a. 1.11
- b. 1.56
- c. 1.44
- d. 1.48
- e. 1.68

Next page

Time left 0:06:02

Question 18

Not yet answered

Marked out of 1.00

Flag question

The following table shows results for a direct time study a,b,c are regular and is irregular done every 5 cycles. Personal, fatigue, and delay allowance in the plant is 14%. Determine the standard time for the cycle.

Work element	a	b	c	d
Observed time (min)	0.13	0.71	0.21	0.33
Performance rating	90%	120%	100%	90%

- a. 1.41
- b. 1.78
- c. 1.51
- d. 1.31
- e. 1.88

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

8:10

juexams.com

Not yet answered

Marked out of 1.00

Flag question

Time left 0:29:01

d in the following table is performed every five cycles, in this direct time study. what is the normal time Tn

Work element	a	b	c	d
min	0.55	0.31	0.47	0.67
Pr	0.95	1	1.1	0.95

Work element	a	b	c	d
Observed time (min)	0.55	0.31	0.47	0.67
Performance rating	95%	100%	110%	95%

- a. 1.48
- b. 1.68
- c. 1.44
- d. 1.56
- e. 1.11

Clear my choice

Next page

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:02:26

Question 20

Not yet answered

Marked out of 1.00

Flag question

An assembly worker standing at a workbench performs a MOVE. The object being moved weighs 2.5 lb. It is moved to an exact location a distance of 12 in.

The TMU's is

- a. 12.9
- b. 15.8
- c. 16.0
- d. 18.7
- e. 15.2

Finish attempt ...

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

10

over 20 hours; work sampling observations were taken for three workers; Product 2 mean time / part (Unit 1)

Category of activity	Prod 1	Prod 2	Prod 3	Part movement	Other
Number of observations	300	250	200	400	144
Number of products completed	400	700	350	(none)	(none)

0.8
1.1
1.0
1.2
0.9

Clear my choice

Question 20

Answer saved

Marked out of 2.0

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 minute, 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?

8:37
juexams.com

Time left 0:02:51

Question 13

Not yet answered

Marked out of 1.00

Flag question

The time study where we use a stop watch to record time elements. The stopwatch is reset to zero at the beginning of each work element.

- a. MOST
- b. snapback
- c. MTM
- d. Continuous
- e. SDS

Clear my choice

Next page

Time left 0:16:18

Question 13

Not yet answered

Marked out of 1.00

Flag question

Date: XX/xx/2XXX	Worker Process Chart		Page ___ of ___
Analyst: MPG	Approval:	Summary of Activities	
Job: Tire change	Part No:		
Material:			
Description: Changing rear wheel tire in owner's driveway in the middle of the day.			

Summary of Activities			
Activity (symbols)	Count	Time	Distances
Operations (○, O)	31		
Inspections (□, I)	0		
Moves (→, M)	20		321 ft
Delays (D, D)	0		
Storages (▽, S)			

Seq.	Activity description	Symbol	Time	Distance	Analysis notes
1	WalK to table	A		30 ft	
2	Assemble parts	B			
3	Walk back to store	C		30 ft	

A B C in the chart is

- a. M O S
- b. M O M
- c. S O O
- d. S O S
- e. M M S

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

MESSENGER now

Manar Amjad

To تايم 😉😉

مين حل ع١٨

?

Time left 0:09:30

Flag question

If the expected normal time for the operation is several days with no prior knowledge; then the best time study method is:

- a. MTM
- b. work sampling
- c. MOST
- d. SDS
- e. direct time study

Clear my choice

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14

8:34

MESSENGER now

Ola Darwazeh
To Electrical
انا فهمت مبدئك

Time left 0:05:50

Question 11

Not yet answered

Marked out of 1.00

Flag question

A mynard most sequence; what is the time in seconds for the operation

A1B0G1A1B3P6A0

- a. 12
- b. 120
- c. 42
- d. 4.3
- e. 13.7

Next page

8:05
juexams.com

Flag question

Time left 0:34:53

A man walks 4 steps, then reaches to an abject by bending 50%, returns to his original position, and places the part on his worktable in MOST is equivalent to

- a. A6B3G1A6B0P1A0
- b. A6B6G2A10B0P1A0
- c. A10B3G1A6B0P1A0
- d. A10B6G1A10B0P1A0
- e. A6B3G1A10B0P1A0

Clear my choice

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:15:54

Question 14

Not yet answered

Marked out of 1.00

Flag question

The fastest learning rate is .....%

- a. 45
- b. 30
- c. 20
- d. 95
- e. 15

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

33°C Sunny ENG 12:16 PM 9/1/2021

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:43:31

Question 4

Not yet answered

Marked out of 1.00

Flag question

in a work sampling procedure the number of samples required for:

Proportion 0.2, determine how many observations would be required to be 95% (Z alpha/2=1.96) within ±0.03 of the true proportion

- a. 385
- b. 683
- c. 1012
- d. 765
- e. 333

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

Time left 0:25:06

Question 12

Not yet answered

Marked out of 1.00

Flag question

The normal time of the work cycle in a worker machine is as follows. The operator-controlled portion of the cycle is 1.1 min. Machine time per cycle *is* 2.67 min. One work unit is produced each cycle. Using a PFD allowance factor of 16% and a machine allowance factor of 30%, determine the standard time for the work cycle.

- a. 6.07
- b. 4.75
- c. 6.88
- d. 3.11
- e. 5.56

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

33°C Sunny ENG 12:16 PM 9/1/2021

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:08:49

Question 17

Not yet answered

Marked out of 1.00

Flag question

The Normal time in TMU for

$A_1B_0G_1M_3X_{139}I_0A_0$

- a. 1440
- b. 10
- c. 144
- d. 100
- e. 50

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:14:24

Question 15

Not yet answered

Marked out of 1.00

Flag question

The standard time for this process is 15.1 min per wafer. Scrap rate is 15%. A total of 75,000 wafers will be processed each year. The process will be operated 8 hours per day, 365 days per year. Data provided by the manufacturer of the processing equipment indicate that the availability is 88%. How many pieces of processing equipment will be needed?

- a. 9
- b. 8.6
- c. 8
- d. 7.73
- e. 4

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:30:12

Question 11

Not yet answered

Marked out of 1.00

Flag question

The standard time for a manual work is 2.58 min per piece. During a particular 8-hour shift of interest, the worker completed 220 work units. Determine worker efficiency.

- a. 1.13
- b. 1.05
- c. 1.16
- d. 1.18
- e. 1.10

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

Finish attempt ...

Time left 0:34:48

Question 10

Not yet answered

Marked out of 1.00

Flag question

Worker	Time	Machine 1	Time	Cum. time
Unload finished part from machine	0.10			0.10
Load raw part, engage auto cycle	0.12			0.22
Transport finished part, deposit in tote pan, walk to raw parts tote pan, pick up and transport to machine	0.51	Machine cycle	0.75	0.97

Which statement is **not true**

- a. Unloading is an external work
- b. Loading is external work
- c. Transportation is an external work
- d. This chart is worker machine activity chart
- e. none

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:09:51

Question 16

Not yet answered

Marked out of 1.00

Flag question

Determine the cycle time in minutes; if we need to produce 163,000 units/year , if the plant operates 50 wk/yr, 5 days/wk, and 8 hr/day. It is anticipated that the line efficiency will be 97%.

- a. 0.33
- b. 0.71
- c. 0.88
- d. 0.91
- e. 0.57

Next page

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:03:15

Question 19

Not yet answered

Marked out of 1.00

Flag question

database of normal time values, usually organized by **work element**s that can be used to establish time standards is .....

- a. LF RH
- b. FLP
- c. PMTS
- d. SDS
- e. TMU

Next page

Quiz navigation

Finish attempt ...

Time left 0:39:19

Question 8

Not yet answered

Marked out of 1.00

Flag question

S.No.	Left hand description	Therblig	Time	Therblig	Right hand
1.	Searching and lifting	SH,H	0.2		
2.			0.4		Opening the vice
3.	Clamping workpiece	_A__	0.8		clamping work piece in the vice piece in the vice.
4.			1.0		Take the file
5.	Do the hand filling operation.	_B_	2.0		Do the hand filing Operation.
6.			2.2		Taking the micrometer
7.	Check the dimension	_C	3.0		Check the dimension
8.			3.2		Open the vice
9.	Remove the work piece	TL			

_C_ is

- a. U
- b. TE
- c. TL
- d. I
- e. PP

Quiz navigation

1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20

Finish attempt ...

METHODS ENGINEERING AND WORK MEASUREMENT

Time left 0:36:01

Question 9

Not yet answered

Marked out of 1.00

Flag question

One of these is **an effective therblig**

- a. hold
- b. pre-position
- c. Transport Loaded
- d. search
- e. select

Next page

Quiz navigation

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	

Finish attempt ...

33°C Sunny ENG 12:18 PM 9/1/2021