Sample Test Name: Engineering



(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

Question 1 of 7
If a company builds a bridge knowing that it has a high probability of failure, what fundamental responsibility is that company neglecting?
OA) Labor law
OB) Pride in workmanship
C) Project management
OD) Ethical conduct
Question 2 of 7
What is the act of repeating a process to reach a desired goal or target?
OA) Analysis
OB) Iteration
C) Research
OD) Resolution

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Qu	es	ELO	n	3	OT	_/

Using the formula below, what is the circular pitch (P) of a gear that has 32 teeth and a diameter of 4 inches?

$$\frac{\pi D}{N} = P$$

- **A)** 0.32
- **B)** 0.25
- **C)** 0.39
- **D)** 0.27

## Question 4 of 7

What factor may change the electrical resistance of a copper wire?

- **A)** Temperature
- **B)** Malleability
- C) Color
- O) Elasticity

## Question 5 of 7

What does a caliper measure?

- A) Mass
- OB) Electricity
- OC) Length
- O) Volume

Ques	ation 6 of 7
Which	team strategy involves collecting ideas and feedback from all members?
( A)	Critical thinking
○ B)	Collaboration
( C)	Analytical thinking
() D)	Project implementation
Quest	ion 7 of 7
	tool can assist in managing a "just in time" manufacturing process to ensure that all cts and processes happen on time?
( A)	Gantt chart
( B)	Mind mapping
( C)	Online timers
( D)	Scatter plot

## Engineering Sample Test Answer Key

Question	Answer
1.	D
2.	В
3.	С
4.	Α
5.	С
6.	В
7.	Α